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Form approved. Budget Burcau No. 42-R1425.

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23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 3/4"	10 3/4"	40.5#	200'	100 sacks
9 5/8"	7 7/8''	26.40#	2400' if needed	125 sacks
6 1/4	4 1/2"	10.50#	5700 '	175 sacks

Selectively perforate and fracture the Ferron and Dakota Formations with 20,000 gal. of jelled weak acid and 200 sacks of 20-40 sand.

This gas is not dedicated.

The E/2 of Section 23 is dedicated this well.

A 3000 psi working pressure and 5000 psi test blowout preventer will be used. Diagram attached hereto.

DIVISION OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any Andrews (This space for Federal or State office use) PERMIT NO APPROVAL DATE AUG 2 8 1981 FOR E. W. GUYNN APPROVEDRY E. W. GUYNN CONDITIONS OF APPROVAL, IF ANY DISTRICT OIL &

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY *See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-4 **DATED 1/1/80**

State U& Q.

United States Department of the Interior Geological Survey Oil and Gas Operations 2000 Administration Building 1745 West 1700 South Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

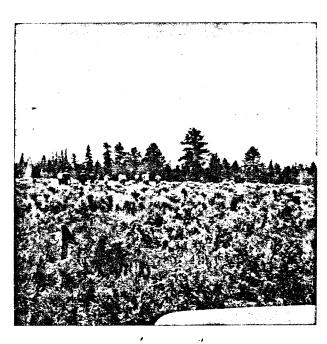
PROJECT IDENTIFICATION
Operator/Project Name VORTT EXPLORATION COMPANY, INC. / LINK CANYON
Project Type GAS WELL
Project Location 1709 FEL, 566 FSL, SEC. 23, T215, R5E
Date Project Submitted 6-5-81 (REVISIONS SUBMITTED 6-22-81)
FIELD INSPECTION Date JULY 7, 1981
Field Inspection Participants GEORGE DIWACHAK US65
JOHN NIEBERGALL STEVE ROBINSON USFS
BRENT BARNEY, CARTER REED, JERRY GLEDHII USFS
ED PATTERSON, W.L. ANDREWS JR VORTT
EVAN HANSEN AMERICAN COLL ENG.
JOHN Nelson WAYNE NEILSON NEILSON CONST.
I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.
Date Prepared Levral Diwallak Environmental Scientist
I concur S/26/91 Data District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

	Criteria 516 DM 2.3.A		Feder Corre- spondence (date)	al/State Ag Phone check (date)	ency Meeting (date)	Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
1.	Public health and safety	/	(8-24-81) J						6	6 (7-7-81)	
2.	Unique characteristics	1				·		2	6	6	4,8
3.	Environmentally controversial	1							6	6	4,8
4.	Uncertain and unknown risks	1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					2	6	6.	4,8
5.	Establishes "precedents	1							6	6	4,8
6.	Cumulatively significant	1						,	6	6	4,8
7.	National Register historic places	1									4
8.	Endangered/ threatened species	1									
9.	Violate Federal, State, local, tribal law	1							6	6	4,8

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

- 1. Surface Management Agency Input INCLUDING ENVIRONMENTAL ASSESSMENT PREPARED FOR APD
- 2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
- 3. Lease Stipulations/Terms
- 4. Application Permit to Drill
- 5. Operator Correspondence
- 6. Field Observation
- 7. Private Rehabilitation Agreement
- 8. RECOMMENDED STIPULATIONS



Link Congres # 5

RECOMMENDED STIPULATIONS

- 1. ALL STIPULATIONS PRESENTED IN THE U.S. FOREST SERVICE ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED ACTION SHALL BE ADHERED TO. A thru V
- 2. THE LOCATION WILL BE MOVED 150 FEET NORTH TO MAKE BETTER USE OF EXISTING TERRAIN
- 3. THE LOGGING SUITE SHALL INCLUDE A GAMMARAY LOG THROUGH THE COAL ZONE: OF THE MESAVERDE
 FORMATION (APPROXIMATELY 800-1000 FEET OF DEPTH) REGARDLESS
 OF WHETHER THE INTERMEDIATE CASING STRING IS
 SET BEFORE LOGGING
- 4. All POTENTIAL FRESH WATER AQUIFERS DISCOVERED
 FROM SURFACE TO THE MANCOS FORMATION MUST
 BE ADEQUATELY ISOLATED AND PROTECTED.

2670 Threatened and Endangered Plants and Animals

July 29, 1981

Vortt Exploration Company Drill Sites

To: District Ranger, Ferron R.D.

Attention: Steve Robison

The following proposed oil and gas drill sites were checked on the ground July 13 and 18, 1981, for T&E plants or their habitats:

Vortt Exploration Co.

Link Canyon

Vortt Exploration Co.

Mill Canyon

Vortt Exploration Co.

Indian Creek

There are no presently listed or sensitive plant species or their habitats located on or near these proposed drill sites. These sites are cleared for T&E plants.

ROBERT M. THOMPSON

Range Conservationist

cc: R. Thompson

C. Reed

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United States Department of Agriculture

Manti-LaSal National Forest 599 West Price River Drive Price, Utah 84501

2820

August 24, 1981

UAS .

Mr. Edgar W. Guynn USGS - 2000 Administration Bldg. 1745 West 1700 South Salt Lake City, Utah 84104

Dear Mr. Guynn:

Γ

Enclosed for your information is an approved Environmental Assessment for Vortt Exploration Company's Link Canyon Unit #1 Wildcat Well on the Manti-LaSal National Forest.

The approved Environmental Assessment is our concurrence for approval of the operation as long as the mitigations identified in the Environmental Assessment and accompanying Transportation Report and Road-Use Permit (Appendix) are followed.

If you need any more information, please contact Carter Reed at our Supervisor's Office in Price, Utah.

Sincerely,

for REED C. CHRISTENSEN Forest Supervisor

Enclosures

RECORD OF DECISION AND FINDING OF NO SIGNIFICANT IMPACT

Vortt Exploration Co., Inc. Wildcat Oil and Gas Well Pines Area, Sevier Co., Utah

An Environmental Assessment (EA) that discusses the anticipated impacts associated with Vortt Exploration's oil and gas well in the Pines area, Sevier County, Utah. (T. 21 S., R. 5 E., Sec. 23, SLM) is available for public review at the Ferron Ranger District in Ferron, Utah, and at the Forest Supervisor's Office in Price, Utah.

It is my decision, based on the assessment and evaluation described in the EA, that the proposed project be allowed as described with the mitigations. The mitigations (management requirements and constraints) are on pages 4-6 of the EA.

I have determined through the EA that this is not a major Federal action that would significantly affect the quality of the human environment; therefore, an Environmental Impact Statement is not needed. This determination was made considering the following factors:

- There are no wetlands, prime or unique rangelands, timberlands or farmlands, wilderness or further planning areas, alluvial valley floors, known threatened or endangered plants or animals, archaeological or paleontological values, or flood plains associated with this proposal.
- 2. There are no apparent adverse cumulative or secondary effects.
- The approval of the project is consistant with the Ferron-Price Land Management Plan.
- 4. The identified issues, concerns and impacts can be effectively mitigated.

Recommended for Approval by: JOHN NIEBERGALL, Ferron District Ranger	Date \$ -18-81
Approved by: RFED C. CHRISTENSEN, Forest Supervisor	Date 8/24/81

ENVIRONMENTAL ASSESSMENT VORTT EXPLORATION CO. INC.

Wildcat Oil and Gas Well Pines Area; Sevier Co., Utah Manti-LaSal National Forest

> Prepared By: Steven F. Robison District Geologist August 5, 1981

Approved By:

OFN NIEBERGALL, District/Ranger

Date 8-18-81

I. PURPOSE AND NEED FOR ACTION

Vortt Exploration Co. Inc. of Fort Worth, Texas has submitted an application for a permit to stake (1-14-81) and an application for a permit to drill an exploratory oil and gas well in the Pines, Sevier County, Utah (submitted 6-5-81). Vortt is the designated operator of an approved Unit Agreement (Link Canyon Unit) that covers the area of this proposed drill site; this well will be the test hole for the unit. The site is in the SW½ SE½, Sec. 23, T21S, R5E, SLM (see attached map). The joint on-site with the U.S. Geological Survey, the Forest Service and Vortt was held 7-7-81. Vortt would like to begin road work and site work on 8-15-81 and move the drill rig in on 8-31-81. They anticipate drilling to be completed 30 days from when it starts. The proposed well is a wildcat well; any production facilities or structures would be covered in a separate Environmental Assessment(s). The existing road may not be adequate if the well is a producer.

A. Issues, Concerns and Opportunities

The following issues and concerns were identified for this project by the Interdisciplinary (ID) Team:

1. Soils

Soils contamination and soil losses could occur with the drilling of this well.

2. Wildlife

The proposed drill site and access road are in big game winter range.

3. Vegetation

Loss of vegetative production on the site (roughly 2 acres).

4. Fire

Drilling and the associated activities increase the chances of man-caused fires.

5. Visual Resources

Trash, supplies, drilling materials or equipment, etc. could be left on the site or along the access road.

6. Public Safety and Recreation

The oversized loads associated with the move/in-move/out of the drill equipment could be hazardous on the narrow, windy access roads.

7. Range

Damages to range improvement structures (fences, cattleguards, ponds, etc.) and gates left open could hinder proper range management. Using water from developed livestock sources for drilling could eliminate that water for it's intended uses.

8. Transportation

Access roads could be severly damaged if traveled in wet road conditions. A loss of the fines from the road surface (as dust) . could occur as well as damage to existing culverts.

The anticipated impacts to the following resources were considered to be insignificant or non existant by the ID Team: special uses, minerals, timber, roadless characteristics, fish, water, and air quality.

II. ALTERNATIVES

A. Proposed Action

Vortt Exploration Co. has proposed to drill an exploration oil and/or gas well in the Pines area of the Muddy Creek drainage (see attached map and Application for Permit to Drill). Pre-onsite investigations of the area were held with Forest Service personnel (Steve Robison and Brent Barney) and Vortt representatives in an attempt to select the most desirable site for both groups. The site was moved 150 . feet to the north during the joint on-site with the US Geological Survey, Forest Service, Vortt, the engineering firm and dirt contractor to a more suitable location (on-site was held July 7, 1981).

The site is in planning unit A-8 of the Ferron-Price Land Management Plan. Oil and gas leasing and exploration may be done in this planning unit.

Access to the proposed drill site will be via I-70 in Salina Canyon, the Convulsion Canyon Coal Mine Road (State Road) to Acord Lakes, then across the Fishlake NF on roads #40150 and 40007 to Forest boundary. Quitchumpah road #50007 and Link Canyon road, #50044 will be used on the Manti-LaSal as well as a short stretch of existing two track road. Construction of new roads will not be necessary in connection with this project. Some gates may need to be widened to allow passage of the oversize loads.

A total of about 2 acres would be disturbed by drilling this well.

B. Alternative Formulation Criteria

The following Alternative Formulation Criteria were developed for this project by the ID Team:

- 1. Any alternative must be consistant with the Ferron-Price Land Management Plan.
- 2. Any alternative must be consistant with all applicable State and Federal laws and regulations.
- 3. Any alternative drill site should make the best use of existing roads.
- 4. No drill sites will be permitted on slopes in excess of 25 percent.
- 5. Any alternative drill site will provide reasonable access to the leasee to drill the targeted geologic structure.

C. Alternative Evaluation Criteria

Only one alternative meets the Formulation Criteria; therefore no Evaluation Criteria are necessary.

D. Alternatives Considered

Three alternatives were considered by the ID Team for this project: the "No Action" alternative, alternate drill site alternative, and the project as proposed with mitigations.

1. No Action

Assessment of the "No Action" alternative is required by CEQ Guidelines (Federal Register, November 29, 1979). Under this alternative permission to drill would not be given and drilling would not take place. This alternative is not viable because the lease holder or operator has a right to drill if an acceptable location exists on the lease; the site chosen is acceptable.

2. Alternate Drill Site

The use of an alternate drill site was considered but not evaluated. An alternate drill site (site other than the one proposed) would probably not allow Vortt to drill their targeted geologic structure, and could not make better use of existing roads (no new access road construction is required for the proposed site), if they were allowed to drill the geologic structure. This alternative was therefore considered to not be a viable alternative by the ID Team.

3. Project as Proposed with Mitigations

Investigations of the Pines area were made to try and locate a suitable drill site and access road. The site was moved 150 feet north during the joint on-site to better adopt the site to the drill pad layout. The site selected is an acceptable location from a surface management standpoint. The following management requirements and constraints (mitigating measures) must be considered as part of the project as proposed:

- a. All topsoil will be removed and stockpiled before drill pad construction.
- b. All contaminated gravel and soil will be placed in the pit and buried at the conclusion of drilling or hauled off the Forest and disposed of properly.
- c. A berm will be constructed around the drill pad area to contain all fluids on the pad (see "Guidelines for Oil and Gas Operations").
- d. The pad surface will be sloped to drain into the pits.
- e. All brush removed on the site will be piled, and will be scattered back on the site after it has been reseeded.

- f. All large rocks and boulders (including those that were blasted during construction of the pits) are to be piled and placed back into the pits at the conclusion of drilling.
- g. All drilling and associated activities must stop when the big game move into their winter range, about Nov. 15. This date may be modified by the District Ranger.
- H. The site will be reseeded immediately after the topsoil has been redistributed with the following seed mix:

Intermediate Wheatgrass (Agropyron intermedium)) 3	lbs.
Slender Wheatgrass (Agropyron tsachycaulum)		lbs.
Pubescent Wheatgrass (Agropyron trichophorum)	3	lbs.
Crested Wheatgrass (Apropyron cristatum)	2	lbs.
Hard Fescue (Festuca ovina duriscula)	1	1b.
Yellow Sweet Clover (Melilotus alba)]	lb.
Ledak Alfalfa (Medicago sativa var ladak)	1	1b.
Small Burnet (Sanguisorba minor)]	1b.

Total 15 lbs./acre

- i. Fire fighting tools must be available at the drill site at all times and shall consist of axes and shovels (one per crew member) and two backpack pumps or two fire extinguishers.
- j. All trash must be properly stored, ie. in garbage bins or cages. All trash, supplies, drilling materials, equipment etc. shall be cleaned up within one week after the site rehab is completed and hauled off the Forest and disposed of properly.
- k. All damages to fences, cattleguards, developed water sources or to other range improvements must be repaired immediately.
- No water will be taken from developed springs or troughs for drilling or related activities. Water arrangements must be made with the State Engineer and the appropriate irrigation company. The Forest Service must approve all water developments.
- m. All vehicular travel will be restricted during wet road conditions to prevent road damage. All damages to roads or associated sturctures will be repaired by the permittee.
- n. The access roads will be watered if and/or when necessary.
- o. All fluids must be adequately contained in the pit to prevent contamination of soils, groundwater and surface water.

- p. A road use permit is required prior to moving heavy equipment onto Forest Service land; all stipulations in the road use permit must be followed (see attached road use permit and engineering report).
- q. The site plan must be approved by the Forest Service prior to any surface disturbance.
- r. No move in-or move out of the drill rig will be permitted on weekends, holidays or openings of hunting seasons.
- s. The reclaimed area will be fenced with 4 strands of barbed wire until the vegetation is re-established.
- t. The disturbed areas must be fertilized prior to reseeding.
- u. Additional road work will be necessary if operations continue into the wet season (after Oct. 1). This date may be modified depending on weather conditions.
- v. A road use permit from the Fishlake National Forest will be required for those portions of the access roads on the Fishlake National Forest.

III. Affected Environment

A general description of the environment can be found in the Ferron-Price Land Management Plan, planning unit A-8. There are no known listed or proposed threatened or endangered plants or animals, wilderness or further planning areas, floodplains, alluvial valley floors, prime or unique farmlands, rangelands or timberlands, wetlands associated with this project nor will there be anticipated impacts to archaeological or paleontological values.

A. Soils

Soils at the proposed drill site are sandy to sandy loam, and are in some places absent as bedrock outcrops are present. The soils are generally shallow (less than 3 feet), dry and have a low organic content. Rehab potential for the site is low to moderate.

B. Wildlife

The area of the drill site and access roads is used extensively by deer and elk as winter range. The big game use the area from about Nov. 15 through April 15, depending on the snow situation. Grouse, bobcat and cougar are the only other game species present in the immediate area. Numerous non-game species of mammals, birds and reptiles are also present.

C. <u>Vegetation</u>

The proposed drill site has predominantly sagebrush, with some grasses present. One small ponderosa will have to be removed for the drill site. Aspen are present near the site.

D. Fire

The area of the proposed drill site becomes very dry and hot in the summer and fall months. The increased human activity associated with the drilling will increase the chances of man-causedfires.

E. <u>Visual Resources</u>

The visual quality objective for the drill site is maximum modification. The area has little recreation use, but trash or drilling materials left on the site would not meet the visual quality objective.

F. Range

The proposed drill site lies within the Emery Cattle and Horse Allotment. This allotment has been determined to be in poor condition but with an upward trend. Scarce water supplies make proper management difficult. Range improvements, troughs, ponds, fences, cattleguards, etc. are present and essential to proper range management.

G. <u>Transportation</u>

Quitchumpah road #50007 and Link Canyon road #50044 and a short distance of existing non-system road will be used as access for this project (roads on the Fishlake NF will be covered in a Road Use Permit issued by the Fishlake NF). These roads are of native materials. In many places bedrock outcrops in the roads, making the running surface rough. Very thin cover over the sandstone is also present in many places. These roads can become very slippery when wet, and rut easily (when the bedrock cover is thick). A few culverts are present in the roads.

IV. Environmental Consequences

A. Effects of Implementation

All issues and/or concerns can be effectively mitigated. About two acres of land surface will be disturbed by this project and taken temporarily out of vegetative production. However, the site will be reclaimed.

B. Evaluation of Alternatives

No evaluation of alternatives is necessary because only one viable alternative was identified by the ID team.

V. List of Preparers

The ID team consisted of the following Ferron Ranger District personnel:

John Niebergall John Erickson Bill Dye Steve Robison

District Ranger Wildlife Biologist

Forester

Geologist, ID Team Leader

Jerry Gledhill Geologist

Consultation from other than the ID team came from the following:

Robert Thompson, USFS, Threatened and Endangered Plant (T & E) Specialist. Mr. Thompson gave clearance for T & E plants.

Ed Patterson, Vortt Exploration Co. Mr. Patterson described several of the physical aspects of the proposed drilling program.

<u>Diana Christensen</u>, Utah Archaeological Research Corp., archaeologist. Ms. Christensen conducted an archaeological and historical inventory of the site and gave clearance for this proposed project (see attached report).

<u>Darrel Hintze</u>, USFS, Fishlake National Forest. Mr. Hintze discussed the road use permit for access roads on the Fishlake National Forest with Vortt representatives.

VI. Appendix

- Map
 Engineering transportation technical report
 Road Use Permit
 Archaeological Report
 Vortt's Application for a Permit to Drill

VORTT EXPLORATION PINES AREA

I. INTRODUCTION

A. The proposal is to drill a gas/oil exploration well, in the Pines Area of Ferron District, in the SW4 SE4 Section 23, T21S, R5E, SLC B&M, to a depth of approximately 5,700 feet. This requires locating an area for a drill site that can be graded to provide a level pad, 300 feet by 300 feet, and provide access for the drilling and supplying equipment to the drill site. The Pines area provides ample opportunity to locate a relatively flat site for a drill pad, while the shallow location of bedrock could present some difficulty with grading the site.

Drill rig movement will require from 16 to 18 commercial truck loads both way. Additional supplies will require approximately 20 commercial truck loads.

The primary access to the Pines Area is from the Convulsion Mine road. The access would use the following Forest Development Roads, (1) the Duncan Mountain Road #40007 on the Fishlake National Forest for 12.8 miles (2.5 miles outside the boundary and 10.3 miles within the boundary), (2) the Quitchumpah Road for 4.15 miles, and (3) the Link Canyon Road for 1.7 miles. In addition, 0.45 miles of non-system road will be used.

The system roads on the Manti-LaSal National Forest are collector roads. The average daily traffic use is 10 vehicles per day, with peak traffic of 50-100 vehicles per day.

Road use consists of permittee's, recreation vehicles and administrative traffic. A small quantity of timber has also been hauled over segments of the road.

B. Alternative Formulation Criteria

- 1. Facilitates completion of the remainder of the transportation system.
- 2. Meets safety requirements.
- 3. Meets standards for design.
- 4. Provides reasonable access to the proposed geological structure.

C. Alternative Evaluation Criteria

- 1. Meets traffic requirements of the exploration, plus existing traffic use.
- 2. Prevents damage to resources by lessening the area impacted.
- 3. Lowest possible cost of transportation (environmental, construction, maintenance, and user cost).

D. Issues, Concerns, and Opportunities

- 1. Concerns exist that the areas on either side of the existing road could be damaged if vehicles leave the travelway in rocky sections in order to avoid the jarring inherent with unsurface road on bedrock.
- 2. Opportunity exists to correct the steep pitches and sharp horizontal curve on the crest vertical curve just within the Manti-LaSal boundary. The horizontal curve needs increase in radius and turnout construction to provide safe sight distance and vehicle turnoffs.
- 3. Opportunity exists to replace the damaged and inadequate (width) cattleguards. The Forest Service has planned to replace the cattleguards with new cattleguards and foundations of adequate width. The materials have been purchased or constructed and are available for installation. The installation is not planned in the maintenance schedule for this year. These cattleguards should be installed by the user where they facilitate the movement of his traffic and significantly reduce the need to construct or widen bypass roads and gates.

II. AFFECTED ENVIRONMENT

The Quitchumpah Road #50007, is a single-lane road with poorly defined turnouts. The road has a width of 12-14 feet and the gentle slopes and limited vegetation allows for adequate sight distance and pull-offs throughout most of the length.

The first 0.2 mile of the road is substandard for the movement of heavy drill trucks and provides inadequate sight distance for present use. A short pitch (+8%) ends on a combination crest vertical and 50'-60' radius horizontal curve through a hog-back ridge.

The remaining portion of the road follows along the cap rock. The soils within the roadway vary from three feet thick to non-existant. Seven drainages are crossed, with only three having culverts and four being fords. The fords are in bedrock. The road intersects four cattle allotment fences. Each crossing has a cattleguard and bypass gate in place. Two of these cattleguards are 10 feet wide, one is 12 feet wide, and one is 14 feet wide. The bypass gates vary from 10 feet to 14 feet wide.

The portion of the Link Canyon Road #50044 to be used for the operation is 10 to 14 feet in width and across the cap rock. The soils on the first mile are thin - less than three feet in most areas, and the last three-fourths mile has almost no cover over the cap rock. The topography is gentle and the vegetation light, allowing for adequate sight distance. No drainage facilities, other than dips, or fence lines are in place.

Approximately one-half mile of unspecified road system with width of 10 to 12 feet will also be used. The vegetation is somewhat heavier in this area and some clearing for turnouts could be needed.

III. ALTERNATIVES

A. Considered but not Evaluated

- 1. Use of existing Forest Development Roads No. 50007 and 50044 without improvments. This alternative was not evaluated because it would not provide a safe route without improvement to the first quarter mile of road No. 50007 and gates or cattleguards cannot adequately pass the intended loads because of width restrictions.
- 2. Upgrade and stabilize the road for year-round operation. This alternative was not evaluated because it was not proposed, however, if operation extends past October 1, this may be necessary.

B. Considered and Evaluated

- Improve the road from the Forest boundaries between the Fishlake and Manti-LaSal to the drill site with the addition of gravel to provide a defined roadway, a cushion and leveling course for driveability, reduce dust and stabilize surfacing losses for a dry season operation.
 - Improve horizontal alignment, and vertical alignment on first 0.2 mile.

- b. Replace culvert at M.P. 3.65.
- c. Replace cattleguards at M.P. 0.0, M.P. 1.6, M.P. 4.10, and 4.15, and widen bypass gates to 16 footers.
- d. Ramp over culvert at M.P. 0.9.
- 2. Spot improvements on road from Forest boundary between Fishlake and Manti-LaSal to drill site for dry season operations with restrictions to movement of heavy drill traffic (other than passenger or pickup) during inclement weather and the big game hunting seasons.
 - Improve horizontal alignment and vertical alignment on first 0.2 mile.
 - b. Replace culvert at M.P. 3.65.
 - c. Ramp over culverts at M.P. 0.9.
 - d. Replace cattleguards at M.P. 00, M.P. 4.10 and 4.15, and widen gates to 16 footer.
 - e. Widen gate bypass gate on cattleguard at M.P. 1.6.

IV. EFFECTS OF IMPLEMENTATION

The short duration use of the Quitchumpah road, the Link Canyon road, and an unspecified road for exploration drilling with air-mist, to a depth of 5,700 feet, will have a short-lived and slight impact to the road system and adjacent resources if exploration traffic is limited to the dry season, the traffic is restricted to the present roadway and heavy load vehicles prohibited from movement during big game seasons.

Reconstruction is needed from the cattleguard at the boundary between the Fishlake and Manti-LaSal National Forests for the first 0.2 miles of the Quitchumpah road. The horizontal and crest curve combination on the ridge should be designed with adequate turning radius for heavy trucks (100 feet desirable), and adequate inside curve widening for heavy trucks and turnout storage (10 feet wide) on the outside of curve. Any excess excavation should be used to reduce the pitch between Quitchumpah Creek and the small ridge.

The existing fords have rock bottoms and would be difficult to culvert without constructing extensive ramps or excavating in bedrock. Culverts at these locations would require continued maintenance because of sediments

and grade. The fords adequately carry the present traffic and could accommodate the exploration traffic. A culvert at M.P. 3.65 which serves the stock water pond in the northeast corner of Section 21, needs to be replaced and an adequate cover provided so that the system continues to function.

Additional soil losses could occur from areas adjacent to the roadway if exploration traffic use is not restricted to the existing road. Because of the lack of cover on cap rock, there would be a tendency to leave the existing roadway for a more comfortable or driveable surface. Turnouts also need to be identified on the ground to prevent damage by indiscriminant pull-offs during passing. By graveling the entire roadway with a cushion or riding surface, these losses could be reduced because the traffic would have a well-defined and driveable driving surface.

The major use of the road system is during the big game hunting season. Conflicts with this existing use and the need to construct to a higher standard can be corrected by prohibiting the move-out of the drill rig or other equipment during these seasons.

The existing cattleguards and bypass gates are of inadequate width to pass the drilling equipment. Either the bypass gates need to be widened to 16 feet and/or the cattleguards replaced. The replacement of the cattleguards has been on the maintenance schedule and the materials (cattleguards and bases) are on hand. In order to avoid open gates and extensive bypass road construction at the cattleguards on curves or at fence corners, the installation of the new cattleguards should be required.

If the well goes into the development stage, the road will require upgrading to a higher standard.

V. EVALUATION OF ALTERNATIVES

Alternative 2 provides for the least movement of traffic, and the least total cost of transportation, while providing a safe, stable facility for the intended traffic. It also allows the completion of the remainder of the transportation system by the installation of the larger cattleguards.

Alternative 1 would provide for stabilization and improved rideability on the road system by placement of a running surface. The total cost of transportation would be higher because of the high cost to obtain and transport gravel and the light use expected.

VI. SELECTION OF PREFERRED ALTERNATIVE

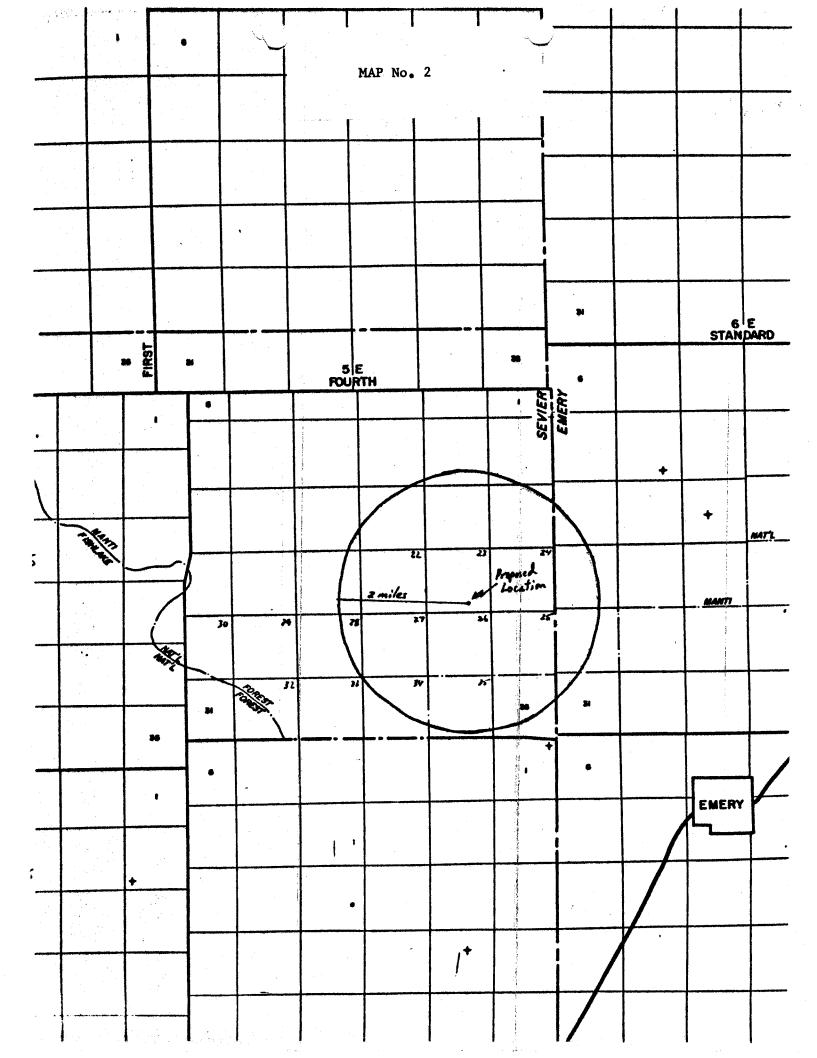
The preferred alternative is to reduce total transportation cost by limiting use to dry season and reduce impacts to other users by prohibiting heavy haul during big game seasons. The first 0.2 mile of road #50007 will be reconstructed to adequately handle exploration traffic, and drainage will be improved by replacing culvert at M.P. 3.65. Allotment management and traffic movement will be improved by replacing narrow cattleguards with 16 foot cattleguards and gates. Stabilization of riding surface will be with water and grading rather than surface gravel. Turnouts for use will be identified on the ground.

U. S. OLOGICAL SURVEY - CONSERVA	ATION VISION
FROM: : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH	7. The second of
TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH	
SUBJECT: APD MINERAL EVALUATION REPORT	LEASE NO. 11-15179
OPERATOR: Vortt Exploration.	WELL NO.
LOCATION: SEŁ SWŁ SEŁ sec. 23, T. 215, R. 56 Sevier County, Utah	<u> </u>
1. Stratigraphy: Mesaverde surface Mancos ~1200' Ferron ~ 4410' Dakota ~5450' TD 5700'	
2. Fresh Water: Fresh water may be present from	n surface to Mancos
3. Leasable Minerals:	
Coal: Mesaverde (-800 / to -	1000).
Oil/Gas: Ferron, Dakota	
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4. Additional Logs Needed: Include a gamma ray log to regardless of whether the Interpreted before logging. 5. Potential Geologic Hazards: None expected	hrough coal zone mediate string is set
6. References and Remarks:	
Signature: <u>Jugory</u> W. Wood Date:	6-16-81

Form approved. Budget Bureau No. 42-R1425.

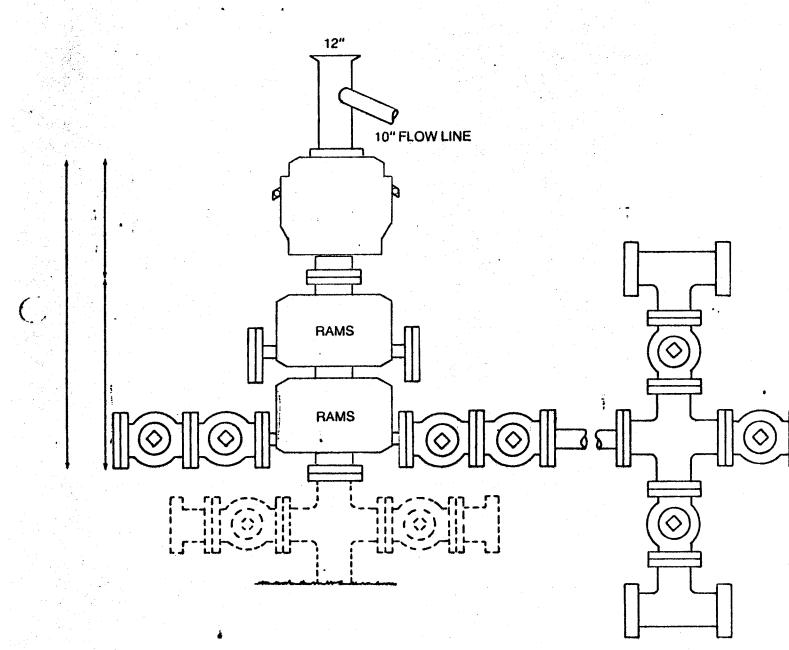
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CRC COLORADO WELL, INC. 2603 East Main • Rangely, Colorado 81648



SERIES 10" X 3000 with positive and adjustable choke

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4901 P. O. Box 26069 2728 LAREDO DRIVE FORT WORTH, TEXAS 76116

TEN POINT OPERATIONS PLAN

LINK CANYON UNIT - WELL NO. 23215

- 1. The geologic name of the surface formation is the Mesa Verde Sand of the Upper Cretaceous.
- Estimated tops of important geologic markers.

Ferron: 4410'
Dakota: 5450'

- 3. Due to lack of information in the area, we are unable to estimate what depth water would be encountered. Gas and/or oil is expected to be encountered based on porosity development in the Ferron from 4440' to 4850' and in the Dakota from 5475' to 5575'.
- 4. Proposed casing program:

10 3/4" to 200' of 32.75# New 7 5/8" to 2400', if needed, of 26.40# New 4 1/2 to Total Depth of 10.50# New

- 5. A 3000 psi working pressure and 5000 psi test rating. Equipment includes a 5 valve choke manifold with a postive and adjustable choke; kill line will be provided at all times.
- 6. The proposed well is to be drilled with air. If water is encountered, we will go to mist drilling or aerated drilling by injecting drilling soap into the system. This process can handle in excess of 100 barrels of formation water per hour. If conditions encountered in the hole force us to go to mud, we would use freshwater mud with Gel for viscosity and Bar for weight. The viscosity and weight of such mud would be governed by hole conditions.
- Auxiliary equipment will include: (1) 6 5/8" left hand kelly cock,
 (2) floats at the bit, (3) floor safety valve at all times for drill pipe.
- 8. As many as three drill stem tests could be run in the hole during the course of drilling, depending on the quality of the formation to be tested. There will not be any coring in this hole. If no intermediate casing is run, the well will be logged from Total Depth back to surface casing when drilling is completed. If an intermediate string of casing is run, a cased hole log will be run thru pipe from the bottom of the intermediate

Ten Point Operations Plan Page 2

string to the surface. Logs to be run will include dual induction, density and cement bond logs.

- 9. It is not anticipated that any pressures, temperatures or hazardous gases will be encountered at this location. If any were encountered, they could be controlled by the BOP.
- 10. Anticipated starting date is July 10, 1981. Duration of operations should be no more than 18 days maximum.

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201 P. O. Box 26089 2728 LAREDO DRIVE FORT WORTH, TEXAS 76116

MULTI-POINT SURFACE USE PLAN

LINK CANYON UNIT-WELL NO. 23215

- Please refer to Map No. 1 which shows the existing EXISTING ROADS 1. roads. New roads which will be required have been marked on this map. All existing roads within a 3 mile radius of this exploratory well are basically gravel or dirt surface roads with bedrock underlying most of the road about 3-5 inches from the surface. In the event of production, existing roads will be maintained according to the type of vehicles that will be used. No oil is anticipated, therefore we expect to have only four wheel drive or small size vehicles using the road, once or twice a week. Pit run gravel will be used on the road where graveling is deemed necessary. All roads will be graded periodically during the duration of this project according to necessity. It is not anticipated that any existing roads will need to be widened. In the event of a dry hole, the existing roads will be left in as near a condition as they were found, except where they have been improved.
- 2. PIANNED ACCESS ROADS Please refer to Map No. 1. The local terrain at the wellsite is flat, therefore the grade of our proposed 150' new access road will be flat. The road surface will not exceed 20' in width. No turnouts will be necessary. The drainage design will be adequate to prevent any soil erosion and will consist of ditches and possible water bars or culverts. There will be no major cuts or fills on this new access road. It cannot be determined if a culvert will be needed on the access road until actual road construction takes place. No gates, cattle guards or fence cuts will be necessary on the planned access road. The surfacing material for the planned access road will be 6" of pit run gravel, which will be brought from off the forest. The road will be center line flagged for convenience.
- 3. LOCATION OF EXISTING WELLS Please refer to Map No. 2. There are no water wells within a two mile radius of location. There are no abandoned wells within a two mile radius of location. There are no temporarily abondoned wells within a two mile radius of location. There are no disposal wells within a two mile radius of location. There are no producing wells within a two mile radius of location. There are no shut-in wells within a two mile radius of location. There are no injection wells within a two mile radius of location. There are no monitoring or observation wells for other resources within a two mile radius of location.
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES There are no tank batteries within a one mile radius of location. There are no production facilities within a one mile radius of location. There are no oil

gathering lines within a one mile radius of location. no gas gathering lines within a one mile radius of location. There are no injection lines within a one mile radius of location. There are no disposal lines within a one mile radius of location. Since there are no lines there, none of them are buried. In the event of production of gas, we would propose to lay a gas gathering line as shown on Map No. 1 attached hereto. We do not feel it necessary to go to the expense of having this proposed gas line surveyed unless production is secured. In the event condensate is produced in conjunction with the gas, a 250-300 barrel tank battery would be placed at the wellsite. A separator would also be placed at the wellsite. The location production equipment will be painted according to Forest Service requirements. It is proposed that the gas gathering line would not be buried, allowing for easy removal upon completion of production. The gas line would be buried near roads. The flow line route will be flagged on the ground as required. The location will not exceed 300' square as shown on the attached Plat No. 1. Construction methods and materials will be based on Forest Service regulations, meaning we will use 12 inches of pit run gravel on the location. Cuts and fills will be made as shown on Plat No. 1. The location will be fenced during drilling operations as will any production facilities. Plans for rehabilitation of disturbed areas no longer needed will include filling and relevelling all pits when | fluids have had adequate time to dry. These areas will be reseeded according to Forest Service requirements.

- 5. IOCATION AND TYPE OF WATER SUPPLY Due to the fact we will be drilling with air, water usage will be limited. Any water used would be brought by truck from Quitchipah Creek. We are in the process of acquiring permission or authorization to use this water from the local irrigation co-op and therefore cannot furnish such at this time. No water wells are to be drilled upon this location.
- 6. SOURCE OF CONSTRUCTION MATERIALS Pit run gravel will be used to build the location and the entrance to the location. No additional materials will be needed for the existing roads. The planned new access road and the location will be built with pit run gravel that will be brought by truck from sources off of the Forest Service property. The gravel will not be brought from either Federal or Indian land. All gravel will be brought to location via the access roads marked on Map No. 1 attached hereto. No other Federal or Indian lands will be used.
- 7. METHODS FOR HANDLING WASTE-DISPOSAL All cuttings, drilling fluids and produced fluids will be placed in the blow pit during drilling operations. All trash will be kept in a fenced pit and removed from the forest periodically. No trash will be left or buried at the location. A port-a-potty will be provided for human waste. The port-a-potty will be removed from the location upon completion of drilling operations.

The well site area will be cleaned to the best of our ability once the drilling rig moves out. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainage; all earthen pits will be so constructed as to prevent leakage from occurring.

- 8. ANCILLIARY FACILITIES No camps or airstrips will be associated with this project except for a small house trailer to be used by drilling and geological consultants.
- 9. WELL SITE LAYOUT Please refer to Plat No. 1. A cross section of the drill pad is not necessary due to the fact the location is on a flat area. The cuts and fills will be minor but are shown on Plat No. 1. All mud tanks, reserve, burn and trash pits, pipe racks, living facilities, and soil material stockpiles will be located as shown on Plat No. 1. Rig orientation, parking areas and access roads will be located as shown on Plat No. 1. All earthen pits will be lined with a polyurethane liner.
- 10. PLAN FOR RESTORATION OF SURFACE After completion of the proposed project, the location will be returned to as near a condition as which it was found. All pits will be backfilled as soon as possible. No contouring will be necssary due to the flat terrain and the fact that it detracts from the natural beauty of the forest. Fluids that will not dry will be removed from the forest. All polluting substances or contaminated materials, such as oil, oil saturated soils, and gravels, will be buried with a minimum of two feet of clean soil as cover or be removed from the forest Drainage will be reestablished to prevent erosion to the site until vegetabion is established. Reseeding operations will be carried out according to Forest Service regulations. Reseeding will be performed as soon as the surface can be made ready. All pits will be fenced until they are ready to be leveled and filled, Any oil left on the pit will be removed from the forest. All rehabilitation operations should be completed within 60 days after the completion of operations, weather permitting.
- 11. OTHER INFORMATION The terrain is rolling juniper hills with open sagebrush flats containing many rocks and some gullies. There is a scattering of timber. Deer and elk have been known to use this area during certain months of the year. Other animals such as rabbits, ground squirrels, mice, cougars and eagles are also present in the general area. The area is used during the summer months by campers and sightseers. For archeological information, please see attached Report No. 1. The soil at the well site is derived from limestone and sandstone. The surface

of all involved lands is Manti Ia Sal Forest lands. There is some hunting activity in the area during certain times of the year. The closest body of water is Acord Iakes, several miles from this location. The closest streams would be Muddy Creek to the North and Quitchipah Creek to the West, both over two miles from the location. There are no known occupied dwellings within a 10 (ten) mile radius of location.

12. OPERATOR'S REPRESENTATIVES

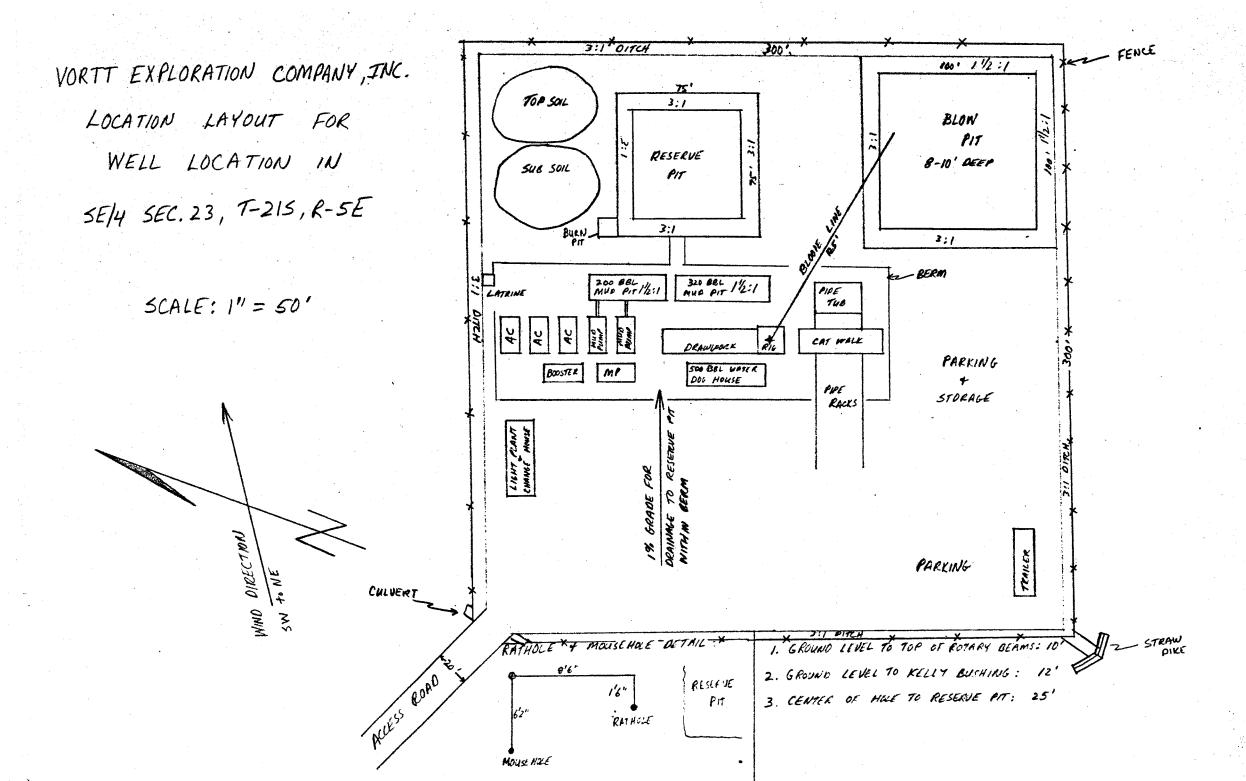
Jim Davis	and
c/o Village Inn Motel	
Castledale, Utah 84513	
(801) 748-2309	

H. E. Patterson P.O. Box 26089 Fort Worth, Texas (817) 244-4201

13. CERTIFICATION I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in their plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Vortt Exploration Company, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

H. E. Patterson Land Manager

HEP/ck



UTAH ARCHAELOGICAL RESEARCH CORPORATION ● 87 E. CENTER, SUITE 103 ● SPANISH FORK, UTAH 84660 ● (801) 798-7061 FIELD OFFICE: P.O. BOX 1147 ● MONTICELLO, UTAH 84535

SUBJECT: Archaeological Survey of a Well Location in The Pines,

Manti-LaSal National Forest, Utah

AUTHOR: Diana Christensen

Principal Investigator

DATE: June 1, 1981

PROJECT: Vortt Exploration Corporation-81-1

PERMIT: Utah State #612

Forest Special Use Permit

PREPARED FOR:

Mr. Ed Patterson Vortt Exploration Corporation P.O. Box 26089 Fort Worth, TX 76116

Dr. David Madsen Utah State Historical Society 300 South Rio Grande Salt Lake City, UT 84101

Mr. Steve Robinson Ferron Ranger District P.O. Box 129 Ferron, UT 84523

ARCHAEOLOGICAL SURVEY OF A WELL LOCATION IN THE PINES,

MANTI-LaSAL NATIONAL FOREST, UTAH

ABSTRACT: On May 29, 1981, an archaeological survey was conducted for a proposed oil well in the Ferron District of the Manti-LaSal National Forest, Sevier County, Utah. An access road to the area was checked for archaeological resources along with the well site itself.

CLIENT: Vortt Exploration Corporation

PROJECT AREA:

- a. Legal Location: T21S, R5E, Section 23, SE
- b. Map: Emery West 7.5' 1979
- c. Sevier County, Utah
- d. Forest land, Manti-LaSal National Forest, Ferron District
- e. Access road of approximately 1/8 mile long and the well pad 300' x 200' were surveyed

DATE OF FIELDWORK: May 29, 1981

PERSONNEL INVOLVED: Diana Christensen

RESULTS AND RECOMMENDATIONS: No archaeological resources were encountered. Clearance is recommended for this well pad and access road.

ARCHAEOLOGICAL SURVEY OF A WELL LOCATION IN THE PINES, MANTI-LASAL NATIONAL FOREST, UTAH

INTRODUCTION

On May 29, 1981, Diana Christensen of Utah Archaeological Research Croporation conducted an archaeological survey of a proposed well location in Township 21 South, Range 5 East, Section 23, SE* of Sevier County, Utah. The proposed oil well will be located on forest lands of the Manti-LaSal National Forest, Ferron District. An access road which had previously been staked was located in the SW* of the same section (23) and was also surveyed for archaeological resources. The road was approximately 1/8 mile long and a 300° by 200° area around the well location was also surveyed for archaeological resources.

ENVIRONMENTAL SETTING

The area in which the well location is proposed is approximately 8640 feet in elevation and is located on a mesa top above Muddy Creek and Link Canyon.

The area is open and is located in a large sage park with surrounding Quaking Aspen groves and Ponderosa Pine trees. Fauna observed in the area were deer, squirrels, and various birds.

The soils are sandy and areas of exposed sandstone are visible.

The land is in excellent condition.

The nearest water is a spring located at the head of Link Canyon which is approximately 3/4 mile from the well location.

FILE SEARCH

A file search of previously recorded archaeological sites and projects in the area was conducted at the Ferron District Office and the Utah State Historical Society in Salt Lake City, Utah. A previously recorded archaeological site, 42 Sv 501, is located in a minor tributary wash at the head of Link Canyon (T21S, R5E, Section 23 SW¹4 of SW¹4). This site will not be affected by the proposed well location or access road.

METHODOLOGY

The access road was checked by the archaeologist walking up one side and back the other, clearing a corridor approximately 50 feet wide. The well location was traversed in approximately 20 meter intervals until an area of 300' by 200' had been cleared.

The day was clear and access roads were dry to the area.

Approximately three hours were spent examining the area for archaeological resources along with three hours travel time.

RESULTS AND RECOMMENDATIONS

No archaeological resources were encountered along the access road or the well location. A previously recorded archaeological site (42 Sv 501) will not be affected by the project. It is recommended that clearance be given with the following stipulations;

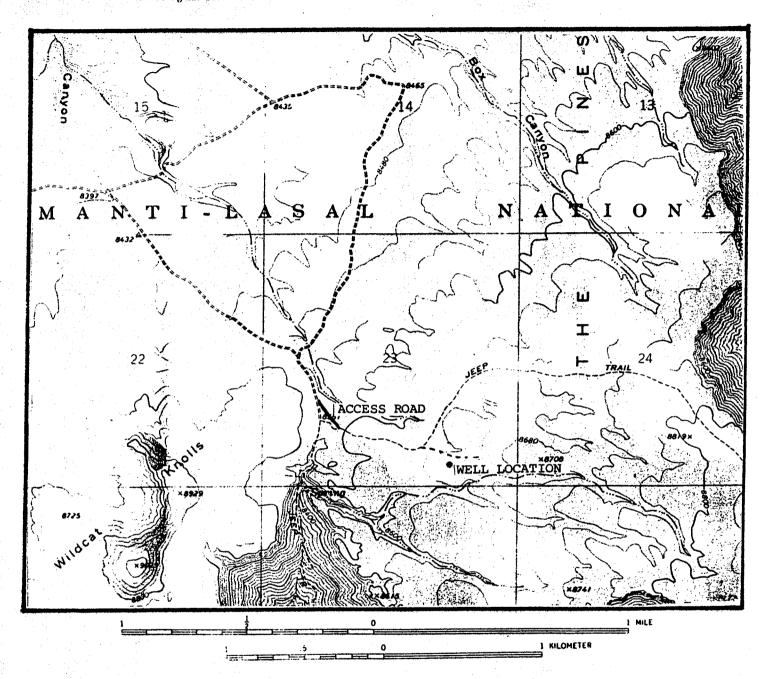
- 1. All construction activities should be limited to those areas examined during the survey.
- 2. A qualified archaeologist should be notified if construction activities disturb any subterranean cultural remains during the course of the project.

Diana Christensen,



AL RESEARCH CORPORATION 87 E. Center, Suite 103 Spanish Fork, Utah 84660 Tel. (801) 798-7061

Archaeological Consultants



T 21 South

R 5 East

Section 23, SE's

UTM Zone 12

N 4313500

E 472400

Project: Vortt Exploration-81-1

Date:

North

Legend:

access road

well location

County: Sevier

Quad: Emery West 7.5'



** FILE NOTATIONS **

DATE: Octobe	U15,1981		
		tion Company.	Onc
WELLING Cyn. 232	15 # 1	tion Company,	
Location: Sec. 2:	3 T. 2/5 R	. 5E County: Le	vier
File Prepared:		Entered on N.I.D:	
Card Indexed:		Completion Sheet:	
	API Number <u>4</u> :	3-041-30024	Prodremitania
CHECKED BY:	<u>.</u>		
Petroleum Enginee	r: <i>M.S.N</i>	Mindey 10-15-8	3/
Director:			
Administrative Ai	de: Unit U	Ill, ok on bound	dries
APPROVAL LETTER:			
Bond Required:	7	Survey Plat Required:	
Order No.		0.K. Rule C-3	
Rule C-3(c), Topo with	graphic Exception in a 660' radius	- company owns or control of proposed site	ls acreage
Lease Designation		Plotted on Map	-
	Approval Lette	r written	
Hot Line	P.I.		

UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE U-15179
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Link Canyon
8. FARM OR LEASE NAME
23215
9. WELL NO.
10. FIELD OR WILDCAT NAME
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23, T21S, R5E, S2B & M
12. COUNTY OR PARISH 13. STATE Sevier Utah
Sevier Utah 14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD) 8640' GL 8653' DF, KDB8654
0040 GE 0033 DI; INDC034
(NOTE: Report results of multiple completion or zone change on Form 9–330.)
e all pertinent details, and give pertinent dates, rectionally drilled, give subsurface locations and t to this work.)*
ne hole out to TD 5730. Requested
31. Plugs to be set as follows:) set at surface with markers. When
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REGISTIVA
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OCT 1 9 1327
OIL, GAS OF
OIL, GAS & MINNG Ft.
Ser @/yG rt.
nager _{DATE} October 15, 1981
ice use)

GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9–331–C for such proposals.)	7. UNIT AGREEMENT NAME Link Canyon 8. FARM OR LEASE NAME				
1. oil gas well other Dry Hole 2. NAME OF OPERATOR Vortt Exploration Company, Inc. 3. ADDRESS OF OPERATOR Fort Worth, TX 76116 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE:	23215 9. WELL NO. 1 10. FIELD OR WILDCAT NAME Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 23, T21S, R5E, S2B & M 12. COUNTY OR PARISH 13. STATE				
AT TOP PROD. INTERVAL: AT TOTAL DEPTH: 5730	Sevier Utah 14. API NO.				
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AND WD) 8640' GL 8653' DF, KDB8654				
REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF	(NOTE: Report results of multiple completion or zone change on Form 9–330.)				
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly statincluding estimated date of starting any proposed work. If well is different and true vertical depths for all markers and zones pertined	nt to this work.)*				
Notice of Intent to Plug and Abandon. Clean to plugging instructions from Mr. Ed Guynn 10-09-5100-5300, 2700-2900, 1500-1700, 225-325 and 1 rig is moved off location, will clean location	he hole out to TD 5730. Requested 81. Plugs to be set as follows: O set at surface with markers. Wh				
APPROVED BY THE DIVISION OF OIL, GAS, AND MINING	PEGETVEN				
DATE: 12-2-81 BY: M.J. Minden	OCT 1 9 1321 OIL, GASS				
Subsurface Safety Valve: Manu. and Type	OIL, GAS & MINUNG Ft.				
18. I hereby certify that the foregoing is true and correct SIGNED HOWAND MAJNUT TITLE Production Ma	mager _{date} October 15, 1981				
(This space for Federal or State of					
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANY:	DATE				

October 19, 1981

Vortt Exploration Company, Inc. P. O. Box 26089 Fort Worth, Texas 76116

RE: Well No. Link Canyon 23215 #1, Sec. 23, T. 21S, R. 5E, Sevier County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer Office: 533-5771

Uffice: 533-5//1 Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-041-30024.

Sincerely

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight

Director

CBF/db CC:US@S

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201 P. O. Box 26089

December 21, 1981

2728 LAREDO DRIVE FORT WORTH, TEXAS 76116

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1588 West North Temple Salt Lake City, Utah 84116

Re: Form OGC-8-X for

Indian Creek 02176 #1 Indian Creek 14176 #1 Link Canyon 23215 #1 Water Analysis for Indian Creek 14176 #1

Gentlemen:

Enclosed please find the report of water encountered while drilling the above referenced wells, and also the water analysis for the Indian Creek 14176 #1 well.

Please feel free to contact us for any additional information.

Sincerely,

VORTT EXPLORATION COMPANY, INC.

HOWARD L. WAGNER/ Production Manager

HLW:1c

Enclosures

PECEIVE DEC 28 1981

DIVISION OF OIL, GAS & MINING

Remarks

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number I	ink Canyon 23215 #1		IL, GAS &
Operator Vortt Explor	ation Co., Inc. Addr	ess P. O. Box 26089	, Fort Worth TX 7611
Contractor Laredo Drlg	. Co. #9Addr	ess Duchesne, Utah	
Location_SW 4 SE 4	Sec. 23 T: 21S	R. 5E Cou	unty_Savier
Water Sands			
<u>Depth</u>	<u>Volume</u>		<u>Quality</u>
From To	Flow Rate or He	ad Fre	esh or Salty
1NONE			
2			
3			
4			
5			
(Co	ntinue of reverse si	de if necessary)	
Formation Tops			

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 - (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

PROPERTY DESCRIPTION:

VORTT U. 15179

LOCATED AT A POINT N 89°69' W, 1708.99 FEET AND 415 GO FEET NORTH OF THE SE CORNER OF SECTION 23, TZIS, R. 5 E, SLB&M.

CERTIFICATE

CRAIG E. JOHANSEN
HOLDING CERTIFICATE NO. 3826, DOHEREBY CERTIFY THAT
THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A
FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY
SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROPERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND
BELIEF, FURTHERMORE, ENCROACHMENTS OF FENCES AND
IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-

ED LAND CRAIG E. JOHANSEN 3826

DENOTES FOUND CORNER

79.99 CH. 509°50 W 23 HOLE - U-15179 1708.99 27 26 N 89° 59' W 80.00

SECTION	TOWNSHIP	RANGE		
Z 3	215.	SE		
DATE	SCALE	BLOCK		
4.81	1" 1000			
PLAT	SURVE	Y		

CRAIG E. JOHANSEN

REGISTERED LAND SURVEYOR JOHANSEN & TUTTLE ENGR. INC. CASTLE DALE, UTAH

SURV	YEY FOR
VORTT EX	(PLORATION
COMPA	NY INC.
2728 LAR	EDO DR



Scott M. Matheson, Governor Temple A. Reynolds, Executive Director Cleon B. Feight, Division Director

4241 State Office Bally • Salt Lake City, UT 84114 • 801-533-5771

May 6, 1982

Vortt Exploration Company P. O. Box 26089 2728 Laredo Drive Fort Worth, Team 76116

Re: Well No. Link Canyon 23215 #1 Sec. 23, T. 21S, R. 5E. Sevier County, Utah

Gentlemen:

This letter to advise you that the Well Completion or Recompletion Report and Log the above mentioned well is due and has not been filed with this office required by our rules and regulations.

Please combe the enclosed Form OGC-3, in duplicate, and forward them to this office soon as possible.

Thank your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse Clerk Typist

VORTT EXPLORATION COMPANY, INC.

OIL AND GAS

(817) 244-4201 P. O. Box 26089 2728 LAREDO DRIVE FORT WORTH, TEXAS 76116

June 14, 1982

Ms. Cari Furse STATE OF UTAH NATURAL RESOURCES & ENERGY OIL, GAS & MINING 4241 State Office Building Salt Lake City, Utah 84114

> RE: Well No. Link Canyon 23215-1 Sec. 23, T21S, R5E Sevier County, Utah

Dear Ms. Furse:

Please find enclosed the Well Completion Report Form OGC-3 in duplicate along with well logs.

If you need further information please let me know.

Very truly yours,

Project Manager

VORTT EXPLORATION COMPANY, INC.

IW/ck

encl. as stated

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36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED LAW WAITS

TITLE

Project Manager

OIL-BBL.

GAS-MCF.

GAS-MCF.

WATER

937

GAS-OIL RATIO

OIL GRAVIPY-API (CORR.)

WATER-BBL.

TEST WITNESSED BY

PROD'N. FOR TEST PERIOD

OIL---BBL.

CHOKE SIZE

CALCULATED 24-HOUR RATE

DATE OF TEST

FLOW. TUBING PRESS.

35. LIST OF ATTACHMENTS

HOURS TESTED

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

CASING PRESSURE